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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 28	MAY 01	New CAS web site launched
NEWS 29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 31	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 32	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 33	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 34	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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 NEWS IPC8      For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 15:57:06 ON 23 MAY 2007

=> fil reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
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FILE 'REGISTRY' ENTERED AT 15:57:21 ON 23 MAY 2007
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DICTIONARY FILE UPDATES:  22 MAY 2007  HIGHEST RN 935655-41-7

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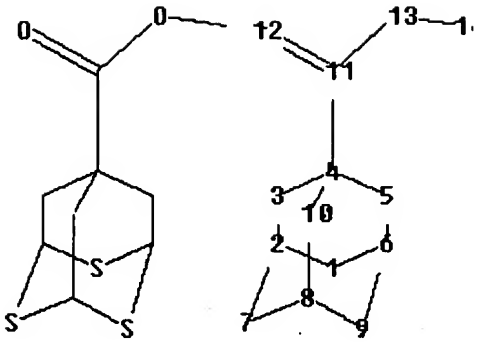

chain nodes :
11 12 13 14
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
4-11 11-12 11-13 13-14
ring bonds :
1-2 1-6 2-3 2-7 3-4 4-5 4-10 5-6 6-9 7-8 8-9 8-10
exact/norm bonds :
1-2 1-6 2-3 2-7 3-4 4-5 4-10 5-6 6-9 7-8 8-9 8-10 11-12 11-13 13-14

exact bonds :
4-11

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS

L1 STRUCTURE UPLOADED

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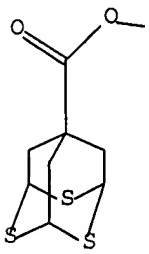
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s sss sam l1
SAMPLE SEARCH INITIATED 15:57:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

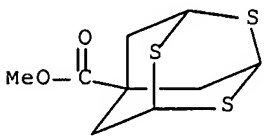
100.0% PROCESSED 1 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> d scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2,4,9-Trithiatricyclo[3.3.1.13,7]decane-7-carboxylic acid, methyl ester (9CI)
MF C9 H12 O2 S3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s sss full l1
FULL SEARCH INITIATED 15:58:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.55	172.76

FILE 'CAPLUS' ENTERED AT 15:58:37 ON 23 MAY 2007
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FILE COVERS 1907 - 23 May 2007 VOL 146 ISS 22
FILE LAST UPDATED: 22 May 2007 (20070522/ED)

=> s l3
L4 6 L3

=> d ibib abs hitstr 1-6

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1331301 CAPLUS Full-text
DOCUMENT NUMBER: 144:69864
TITLE: Process for the preparation of methyl 2,4,9-trithiaadamantane-7-carboxylate from oxidized methyl triallylacetate with a Lewis acid catalyst and a sulfuring agent
INVENTOR(S): Jun, Hu
PATENT ASSIGNEE(S): The University of Akron, USA
SOURCE: PCT Int. Appl., 14 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005120186	A2	20051222	WO 2004-US21558	20040701
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1740592	A2	20070110	EP 2004-821807	20040701
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				

PRIORITY APPLN. INFO.: US 2003-484171P P 20030701
WO 2004-US21558 W 20040701
OTHER SOURCE(S): CASREACT 144:69864

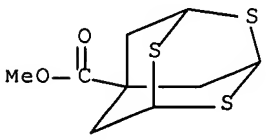
AB The method reacts oxidized Me triallyl acetate with a Lewis acid and a sulphuring agent. A process for the preparation of Me 2,4,9-trithiaadamantane- 7-carboxylate from oxidized Me triallylacetate (i.e., the reaction products of ozone and Me triallylacetate) with a Lewis acid (e.g., boron trifluoride etherate) and a sulfuring agent (e.g., Lawesson's reagent).

IT 701216-27-5P

RL: PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
(process for the preparation of Me 2,4,9-trithiaadamantane-7-carboxylate from oxidized Me triallylacetate with a Lewis acid catalyst and a sulfuring agent)

RN 701216-27-5 CAPLUS

CN 2,4,9-Trithiatricyclo[3.3.1.13,7]decane-7-carboxylic acid, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:580534 CAPLUS Full-text

DOCUMENT NUMBER: 144:233049

TITLE: Preparation of 7-azidocarbonyl-2,4,9-trithiaadamantane by a new thioacetal crown synthetic method

AUTHOR(S): Khemtong, Chalermchai; Hu, Jun

CORPORATE SOURCE: Department of Chemistry, University of Akron, Akron, OH, 44325-3601, USA

SOURCE: Journal of Sulfur Chemistry (2005), 26(2), 105-109
CODEN: JSCOFC; ISSN: 1741-5993

PUBLISHER: Taylor & Francis Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

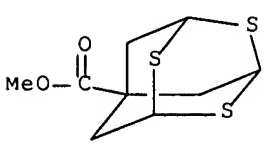
OTHER SOURCE(S): CASREACT 144:233049

AB A new method for synthesizing thioacetal crown is reported for the effective synthesis of 7-methoxycarbonyl-2,4,9-trithiaadamantane. Application of this intermediate in the synthesis of 7-azidocarbonyl-2,4,9- trithiaadamantane, a photoreactive surface linker for photolithog. chemical patterning on self-assembled monolayers on gold surfaces, is also reported.

IT 701216-27-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 7-azidocarbonyl-2,4,9-trithiaadamantane starting from alkyl triallylacetate)

RN 701216-27-5 CAPLUS

CN 2,4,9-Trithiatricyclo[3.3.1.13,7]decane-7-carboxylic acid, methyl ester (9CI) (CA INDEX NAME)

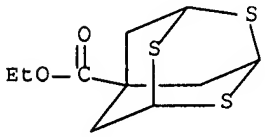


IT 440109-35-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of 7-azidocarbonyl-2,4,9-trithiaadamantane starting from alkyl triallylacetate)

RN 440109-35-3 CAPLUS

CN 2,4,9-Trithiatricyclo[3.3.1.13,7]decane-7-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:577427 CAPLUS Full-text

DOCUMENT NUMBER: 144:232679

TITLE: Formation of an Inclusion Complex of a New Transition Metal Ligand in β-Cyclodextrin

AUTHOR(S): Khemtong, Chalermchai; Banerjee, Debasish; Liu, Yubiao; El Khoury, Jouliana M.; Rinaldi, Peter L.; Hu, Jun

CORPORATE SOURCE: Department of Chemistry, The University of Akron, Akron, OH, 44325-3601, USA

SOURCE: Supramolecular Chemistry (2005), 17(4), 335-341
CODEN: SCHEER; ISSN: 1061-0278

PUBLISHER: Taylor & Francis Ltd.

DOCUMENT TYPE: Journal

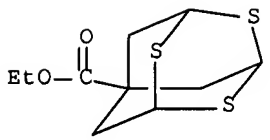
LANGUAGE: English

AB The inclusion complex of a new transition metal ligand, 2,4,9-trithia-tricyclo[3.3.1.13,7]decane-7-carboxylic acid (2,4,9-trithiaadamantane-7-carboxylic acid, TPCOOH) in β-cyclodextrin was studied by 1H NMR, 2D NOESY NMR spectroscopy, host-induced CD spectroscopy, and tandem mass spectrometry. 1H NMR, MS-MS and NOESY data show that the TPCOOH guest forms a 1:1 inclusion complex with the host β-cyclodextrin. The NOESY expts. also show that TPCOOH is oriented in the complex with the thioketal end preferentially located at the larger opening of βcyclodextrin. The orientation of the guest in the host mol. is also confirmed by the induced CD of the ligand, which shows a pos. Cotton effect. An association constant of 660 ± 20M-1 was determined by 1H NMR titration for the complex at room temperature in D2O.

IT 440109-35-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(saponification; formation of an inclusion complex of β-cyclodextrin with 2,4,9-trithiaadamantane-7-carboxylic acid)

RN 440109-35-3 CAPLUS

CN 2,4,9-Trithiatricyclo[3.3.1.13,7]decane-7-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:29308 CAPLUS Full-text
DOCUMENT NUMBER: 142:134627
TITLE: Preparation of 7-ethynyl-2,4,9-trithiaadamantane and ruthenium complex dimers thereof
INVENTOR(S): Hu, Jun
PATENT ASSIGNEE(S): The University of Akron, USA
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005003089	A2	20050113	WO 2004-US21559	20040701
WO 2005003089	A3	20050929		

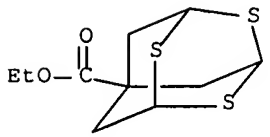
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-484119P P 20030701
OTHER SOURCE(S): CASREACT 142:134627

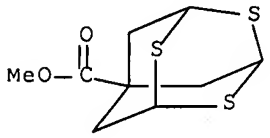
AB 7-Ethynyl-2,4,9-trithiaadamantane (I) is claimed. A process for preparation of I comprises (1) reducing alkyl 2,4,9-trithiaadamantane-7-carboxylate to 7-hydroxymethyl-2,4,9-trithiaadamantane, (2) oxidizing 7-hydroxymethyl-2,4,9-trithiaadamantane to produces 7-formyl-2,4,9- trithiaadamantane, and (3) reaction of the latter with Ohira-Bestmann reagent. Mol. wires having 2,4,9-trithiaadamantane surface anchors are also disclosed.

IT 440109-35-3P 701216-27-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 7-ethynyl-2,4,9-trithiaadamantane and ruthenium complex dimers thereof)

RN 440109-35-3 CAPLUS
CN 2,4,9-Trithiatricyclo[3.3.1.13,7]decane-7-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



RN 701216-27-5 CAPLUS
CN 2,4,9-Trithiatricyclo[3.3.1.13,7]decane-7-carboxylic acid, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:329835 CAPLUS Full-text
DOCUMENT NUMBER: 141:38285
TITLE: Photochemical Patterning of a Self-Assembled Monolayer of 7-Diazomethylcarbonyl-2,4,9-trithiaadmantane on Gold Films via Wolff Rearrangement
AUTHOR(S): Hu, Jun; Liu, Yubiao; Khemtong, Chalermchai; El Khoury, Jouliana M.; McAfoos, Timothy J.; Taschner, Ian S.
CORPORATE SOURCE: Department of Chemistry, The University of Akron, Akron, OH, 44325-3601, USA
SOURCE: Langmuir (2004), 20(12), 4933-4938
CODEN: LANGD5; ISSN: 0743-7463
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:38285

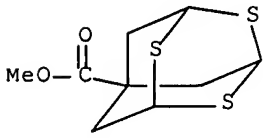
AB Photolithog. attachment of functional organic mols. via ester or amide linkages to self-assembled monolayers (SAMs) on gold thin films was achieved by employing a novel photoreactive surface anchor, 7-diazomethylcarbonyl-2,4,9-trithiaadmantane. The photoreactive SAM was prepared by the spontaneous phys. adsorption of the photoreactive surface anchor onto gold surfaces. The α-diazo ketone moiety of the SAM was found to display the classical Wolff rearrangement reactivity to produce a ketene intermediate on the exposed area. Organic mols. such as alcs. and amines can thus be attached to the gold surfaces selectively by the facile in situ formation of ester or amide linkages. The structure and reactivity of the photoreactive surface anchor were characterized by real-time FT-IR, fluorescence, and polarization modulation IR reflectance absorption spectroscopy (PM-IRRAS). The Wolff rearrangement reactivity of the SAM suggested that a "surface-isolated" carbonylcarbene may be generated when the SAM was exposed to 255-nm irradiation

IT 701216-27-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(saponification; photochem. patterning of self-assembled monolayer of

7-diazomethylcarbonyl-2,4,9-trithiaadmantane on gold films via Wolff photorearrangement followed by ketene trapping)

RN 701216-27-5 CAPLUS

CN 2,4,9-Trithiatricyclo[3.3.1.13,7]decane-7-carboxylic acid, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:284196 CAPLUS Full-text

DOCUMENT NUMBER: 137:79220

TITLE: α-Helical polypeptide films grown from sulfide or thiol linkers on gold surfaces

AUTHOR(S): Kittredge, Kevin W.; Minton, Mark A.; Fox, Marye Anne; Whitesell, James K.

CORPORATE SOURCE: Department of Chemistry, North Carolina State University, Raleigh, NC, 27697-8204, USA

SOURCE: Helvetica Chimica Acta (2002), 85(3), 788-798
CODEN: HCACAV; ISSN: 0018-019X

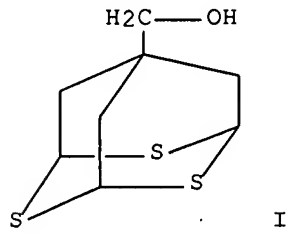
PUBLISHER: Verlag Helvetica Chimica Acta

DOCUMENT TYPE: Journal

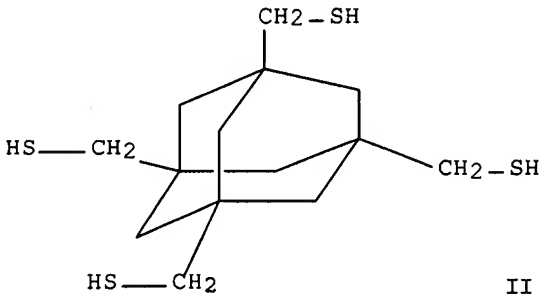
LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:79220

GI



I



II

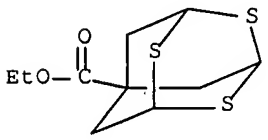
AB We prepared two new linkers, S-functionalized adamantane derivs. (I) and (II), which bind as monolayers on polycryst. gold. From these surface anchors, both L- and D-isomers of alanine can be grown as thin films of α-helical polypeptides directed from the gold surface by using the appropriate N-carboxyalanine anhydride. FT-IR studies show that these layers are roughly 1000-Å thick and that, under the same growth conditions, the L-polypeptide layers grow at a rate ca. 30% greater than that of the non-natural D-amino

acid. XPS studies show that, upon equilibration, all three S-atoms of the sulfide moieties of I are bound to the gold surface, and that, on average, three of the four thiols of II are chemoadsorbed. The essential role of H2O on the surface of these films as a necessary component in these gas-phase polymerization reactions is demonstrated.

IT 440109-35-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of in the formation of directionally aligned α-helical polypeptides on gold using sulfide or thiol linkers)

RN 440109-35-3 CAPLUS

CN 2,4,9-Trithiatricyclo[3.3.1.13,7]decane-7-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	32.09	204.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.68	-4.68

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:59:27 ON 23 MAY 2007